

# Seventy-Seventh (77<sup>th</sup>) Annual Deming Conference on Applied Statistics

## Virtual Conference\*

Sponsored by the Biopharmaceutical Section of the ASA, International Chinese Statistical Association, and the Deming Conference Organization

Monday December 6, 2021

11 AM ⇒ 12 PM Keynote: What is Translational Biostatistics and How to Implement It? Prof. L. J. Wei, Harvard University

Moderator: Pinggao Zhang

Morning Tutorials 12 PM to 3 PM

### Session A

Semiparametric Regression Analysis of Interval-Censored Data

Danyu Lin, University of North Carolina @ Chapel Hill  
Moderator: Wenjin Wang

### Session B

Precision Gains in Randomized Studies Using Covariate Adjustment With Ordinal and Time-To-Event Endpoints

Iván Díaz, Cornell University  
Moderator: Kalyan Ghosh


Break followed by Afternoon Tutorials 3:30 PM to 6:30 PM

### Session C

Group Sequential Design (GSDSIGN) and Non-Proportional Hazard

Keaven Anderson, Yilong Zhang and Xiao Nan, Merck & Co. Inc  
Moderator: Bill Wang

### Session D

Marginal Models in Analysis of Correlated Binary Data with Time-Dependent Covariates in Biomedical Clinical Trials 

Jeffrey R. Wilson and Ding-Geng Chen, Arizona State University  
Moderator: Walter R. Young

Tuesday December 7, 2021

11 AM ⇒ 12 PM Keynote: Multiple Imputation and Missing Data, Prof. Stef van Buuren, University of Utrecht, Holland

Moderator: Alfred H. Balch

Morning Tutorials 12 PM to 3 PM

### Session E

Toward Better Practice of Covariate Adjustment in Analyzing Randomized Clinical Trials

Shao Jun, University of Wisconsin – Madison and Ting Ye, University of Washington  
Moderator: Naitee Ting

### Session F

C'mon in ... The DOOR is Open: Pragmatic Benefit: Risk Evaluation Using Outcomes to Analyze Patients Rather than Patients to Analyze Outcomes  
Scott Evans and Toshimitsu Hamasaki, George Washington University

Moderator: Bill Wang

Break followed by Afternoon Tutorials 3:30 PM to 6:30 PM

### Session G

Beyond Bonferroni Correction – Innovation, Intuition and Common Sense

Qian Helen Li, BMS  
Moderator: Naitee Ting

### Session H

Extracting Real-World Evidence from Real-World Data

Rebecca Hubbard, University of Pennsylvania and Xu Shi, University of Michigan  
Moderator: Kalyan Ghosh

Wednesday December 8, 2021

11 AM ⇒ 12 PM Keynote: Two Key Ideas in Missing Data – Missing at Random and Response Propensity, Prof. Rod Little, University of Michigan

Moderator Alfred H. Balch

Morning Tutorials 12 PM to 3 PM

### Session I

The Treatment of Missing Data in Clinical Trials

Rod Little, University of Michigan  
Moderator: Alfred H. Balch

### Session J

Robust Methods for Assessment of Average and Scaled Average Bioequivalence

Divan Burger, University of Pretoria, South Africa  
Moderator: Din Chen

Break followed by Afternoon Tutorials 3:30 PM to 6:30 PM

### Session K

Using SAS PROC BGLIMM and MCMC for Bayesian Analysis of Mixed Models

Walter Stroup, University of Nebraska  
Moderator: Alfred H. Balch

### Session L

Statistical Analyses Targeting Estimands

Frank Bretz and Dong Xi, Novartis  
Moderator: Ivan S F Chan


Thursday & Friday December 9-10, 2021

11:00 AM ⇒ 12:30 PM Lecture / 12:30 PM ⇒ 1:00 PM Break / 1:00 PM ⇒ 2:30 PM Lecture /  
2:30 PM ⇒ 2:50 PM Break / 2:50 PM ⇒ 4:20 PM Lecture / 4:20 PM ⇒ 4:30 PM Break / 4:30 PM ⇒ 6:00 PM Lecture

Short Course: Estimands, Missing Data Handling, and Bayesian Methods for Clinical Trials

Frank Liu, Merck & Co. Inc and Fang Chen, SAS® Institute Inc.  
Moderator: Ivan S. F. Chan

All tutorial and short course titles, presenters and moderators from 1970 onward are on [www.demingconference.org](http://www.demingconference.org)

 Session is based on a recently published text that is available for a discounted price. The book used in tutorials or short courses is not included in registration. Attendees will be provided links and promotion codes to order the books themselves.

All times in the schedule refer to US EST Time

\*Virtual conference information with links to participate will be sent to registrants on Nov 15<sup>th</sup>, 2020